

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P229415

Luminaire Tested: **22ALNG-LD5-20-UNV-L840-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36087)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD5-20-UNV-L840-CD1-SVPD1-U
Description: METALUX 2X2 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (126)4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1989.1 lumens
Efficiency: N/A
Efficacy: 119.8 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.23 / 1.31
Luminous Opening: Rectangular (W 1.83' x L: 1.83' x H: 0')
CIE Type: Direct

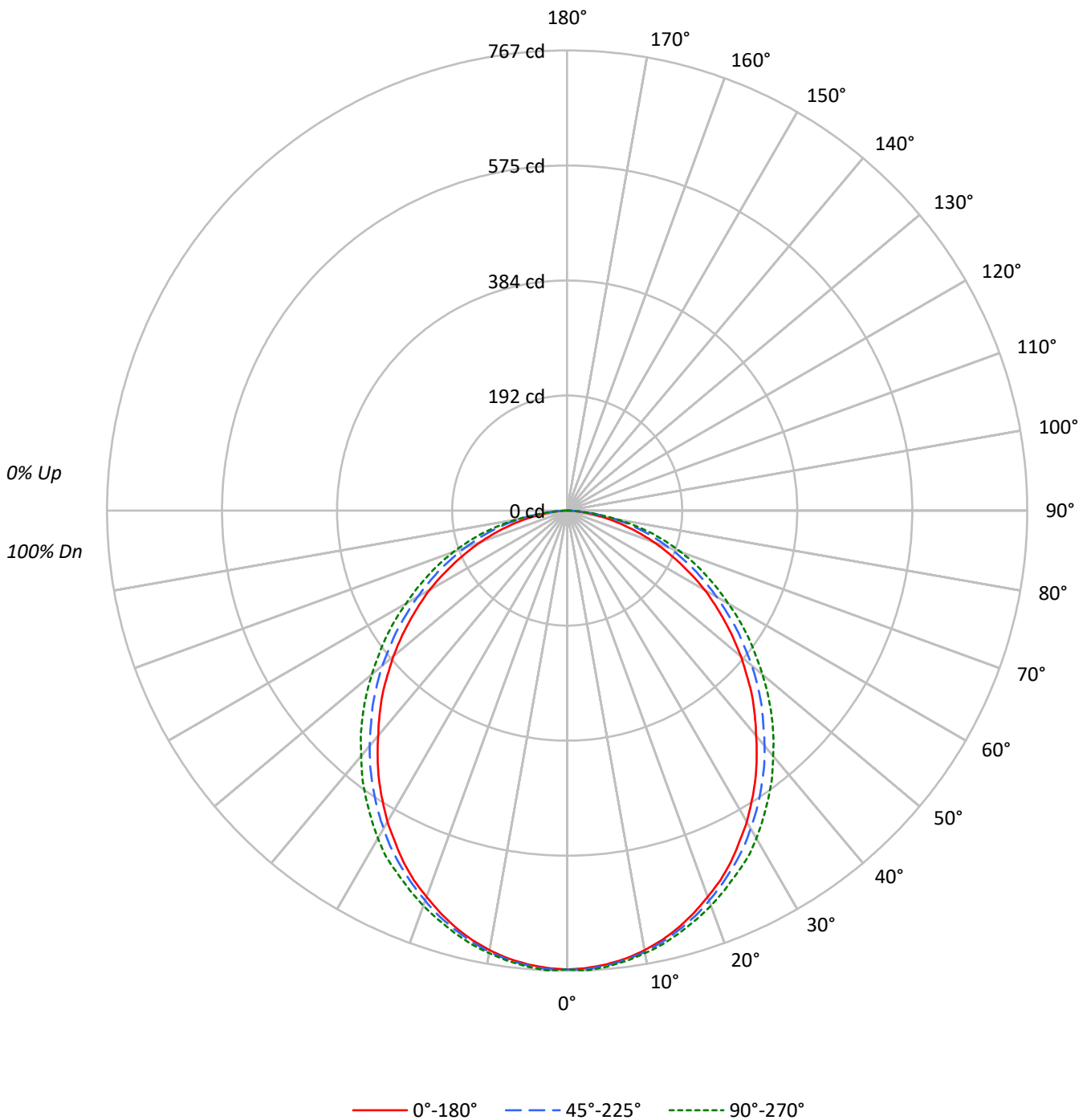
Input Watts (W): 16.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51
5	76	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2450	2450	2450
5°	2440	2446	2453
10°	2419	2429	2436
15°	2384	2397	2414
20°	2334	2358	2389
25°	2283	2314	2360
30°	2215	2263	2333
35°	2139	2205	2287
40°	2048	2140	2232
45°	1975	2074	2183
50°	1883	2003	2117
55°	1787	1926	2060
60°	1697	1845	1986
65°	1569	1773	1940
70°	1442	1695	1882
75°	1262	1609	1807
80°	1051	1457	1549
85°	808	1029	955



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.2	3.6
10°-20°	203.9	10.3
20°-30°	302.1	15.2
30°-40°	353.3	17.8
40°-50°	353.0	17.7
50°-60°	307.7	15.5
60°-70°	230.1	11.6
70°-80°	133.9	6.7
80°-90°	32.9	1.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	578.2	29.1
0°-40°	931.4	46.8
0°-60°	1592.2	80.0
0°-90°	1989.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1989.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	759	760	761	763	763	72
15°	719	720	723	726	728	202
25°	646	648	655	664	668	297
35°	547	551	564	580	585	342
45°	436	441	458	475	482	335
55°	320	326	345	361	369	287
65°	207	215	234	249	256	206
75°	102	113	130	140	146	109
85°	22	26	28	27	26	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	765	765	765	765	765
2.5°	763	763	765	766	767
5°	759	760	761	763	763
7.5°	753	754	755	757	757
10°	744	745	747	749	749
12.5°	733	734	736	738	740
15°	719	720	723	726	728
17.5°	703	705	709	713	715
20°	685	687	692	699	701
22.5°	667	668	674	682	685
25°	646	648	655	664	668
27.5°	622	625	635	646	652
30°	599	601	612	626	631
32.5°	573	577	589	603	608
35°	547	551	564	580	585
37.5°	519	523	539	555	561
40°	490	496	512	529	534
42.5°	463	468	484	501	509
45°	436	441	458	475	482
47.5°	406	411	430	447	454
50°	378	383	402	419	425
52.5°	349	355	372	390	396
55°	320	326	345	361	369
57.5°	292	299	315	332	340
60°	265	270	288	304	310
62.5°	236	242	260	277	283
65°	207	215	234	249	256
67.5°	180	188	207	221	229
70°	154	162	181	194	201
72.5°	128	138	155	167	173
75°	102	113	130	140	146
77.5°	79	90	105	114	116
80°	57	68	79	83	84
82.5°	39	47	53	53	55
85°	22	26	28	27	26
87.5°	8	9	8	5	5
90°	0	0	0	0	0

(END OF REPORT)